



United Technologies



The difference is in the detail...



Air Handling Unit **39 HQ**





Number 1 in Air Conditioning



Carrier is your partner for total solutions.

STRONG IN SERVICE AND REFURBISHMENT

- Assembly of units on-site, from either modular sections or flat pack.
- Service of all air handling unit components.
- Supply of consumables for maintenance Inspections and advice on solving new / replacement plant issues.
- Complete refurbishment of existing air handling units.
- Installation of new or upgraded components into existing air handling units.
- On site maintenance.
- Fully qualified site personnel.

SETTING THE STANDARD IN PRODUCT INNOVATION: CARRIER

- Knowledge centre ("Centre of Excellence & Competence") for air handling units inside Carrier.
- Development of a quality assured and tested standard of central station air handling units to meet the worldwide sales market.
 - Partnering, testing and evaluation of out-sourced components for compatibility with Carrier air handling units.
 - Technical support for sales and service departments.
 - Development of company software programs for selection and evaluation of all components.
 - Participation in the development and maintenance of international European standards (EN 1886, EN 13053).
 - Active participation in the compilation of various Eurovent publications on central station air handling units (WG6C) such as "LCC guidelines for air handling units" and "Guidelines for the calculation of energy consumption of air handling units".
 - Representing Carrier at the Eurovent certification programme for air handling units with the primary objective of developing initiatives to improve the quality and integrity of the standards.

A customized airovision unit for each application.

The standard product range includes 122 different sizes with a nominal selection range between 0,5 m³/s and 35 m³/s. Within the range the sizes increase in air flow steps of approximately 12%. This allows an optimised selection for each air volume and component combination.

- Air leakage class B standard (EN1886). • Optimum energy efficiency.
- High corrosion resistance. • Modular construction. • High-quality components.
- Easy to maintain. • Dimensional flexibility. • Environmentally friendly.



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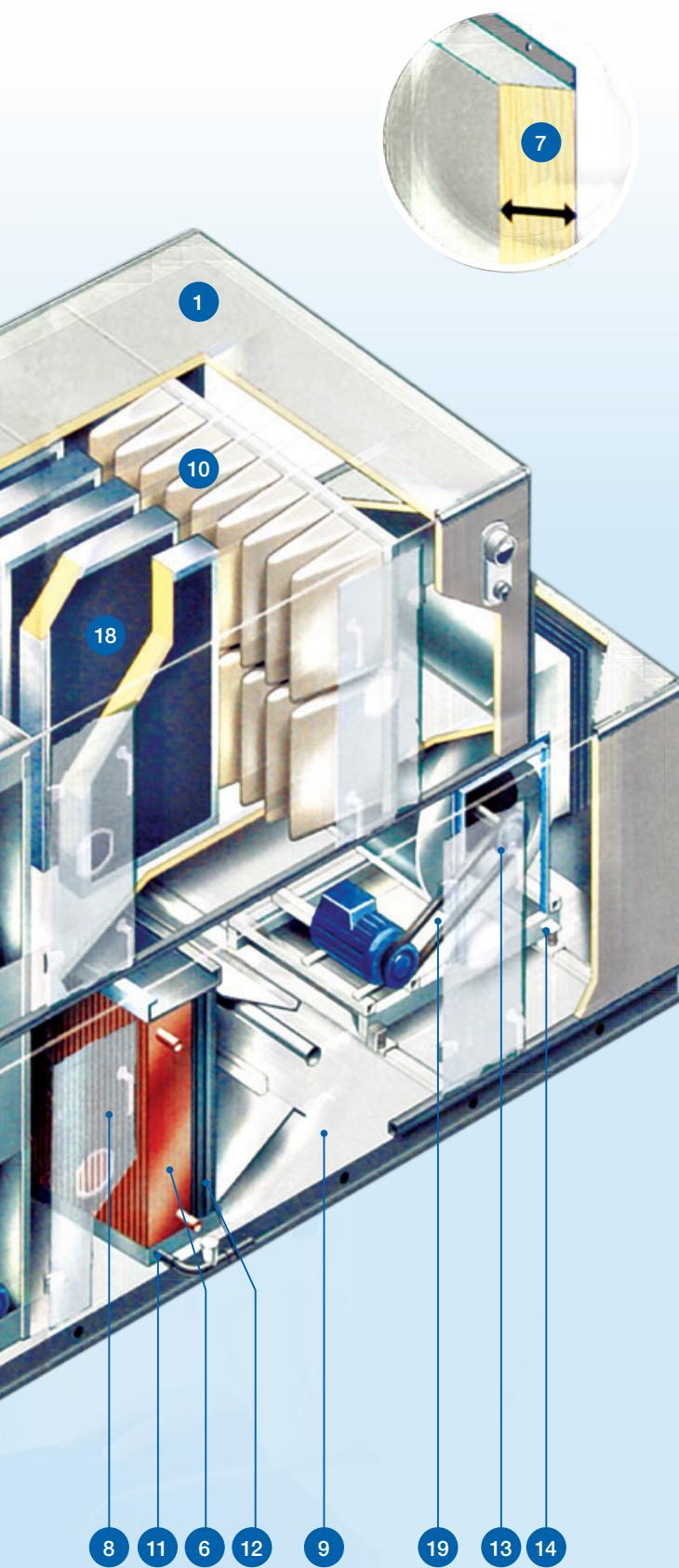
Technical Specification (in accordance with EN1886)

- ✓ Thermal transmittance coefficient class T2
- ✓ Thermal bridging factor class TB2
- ✓ Casing air leakage class L1
- ✓ Mechanical strength class D1
- ✓ Filter bypass leakage class F9

Options

- ✓ Stainless steel.
- ✓ All types of humidification systems.
- ✓ Flat pack option for site assembly.
- ✓ Heat recovery systems (run around coil, plate heat exchanger and thermal wheels)
- ✓ Wide selection of standard accessories.
- ✓ Cooling coil drain tray fully accessible for cleaning/disinfection.





Rigid Construction

1. Profiled steel frame construction with purpose built corner and centre posts.
2. Panels with 60 mm thick thermal insulation.
3. Robust base frame made of galvanised steel box profile.

High Corrosion Resistance

4. Corrosion resistant filter frames.
5. Polyester coated galvanized steel external panels; Galvanized steel or Polyester coated galvanized steel or Stainless steel internal panels.
6. Cooling coils with integrated stainless steel drain pan and plastic droplet eliminator.
7. The special panel design and frame detail eliminates the chance of condensation forming in the panels.

Easy Maintenance

8. Various inspection options with generously sized clear opening access doors.
9. Completely smooth internal surfaces.
10. Filters easily removable.
11. Cooling function optional with sloping drain pan.
12. Moisture eliminator after the cooling coil easily removable.
13. Long-life fan and motor bearings.
14. Fans removable from the side.

High-quality Built-in Components

15. Heat Recovery Wheels.
16. High-efficiency centrifugal lownoise fans, mounted on vibration isolators with low transmission factor.
17. Dampers.
18. Sound absorption splitters.
19. Matched high efficiency belt drives.

Environmentally Friendly

- ✓ No paint treatment required after the production process.
- ✓ Use of fully recyclable components.
- ✓ Low energy usage due to optimised component selection and superior casing characteristics.
- ✓ High efficiency heat recovery systems available.

Wide application range

Our products have been used for generations in a wide range of market sectors. In all these applications they have clearly proven their ability to meet the varying requirements and long term functional reliability. Carrier has played an active role in creating optimised air treatment for installations in leisure and event complexes, such as sport halls, stadiums, theatres, museums, libraries, as well as oil drilling rigs, airports, cruise ships and hotels.

You will also come across Carrier products in the offices of many major worldwide companies and government institutions, as well as shopping centres, supermarkets, department stores and educational establishments. In addition, Carrier air handling units are also widely used throughout the health care sector and also in specialist applications where stringent hygiene requirements are required, such as clean rooms and specific production processes.





Airovision, the **right solution** for any application...

Airovision is a modular construction that can be fully customised to provide the required performance for any application. The special new casings encompass only high-quality components including filters, heat recovery systems, fan assemblies, cooling and heating coils, humidifiers and attenuators. The new Airovision range also pays special attention to air quality and in the reduction of energy required to cool, heat, humidify and supply the conditioned air.



With Module Height	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2,5	2	3	4																			
4	4	5	6	7	8	9	10	11	12													
6	6	8	9	11	12	14	15	17	18	20	21	23	24	26	27							
8			12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
10					20	23	25	28	30	33	35	38	40	43	45	48		53	55	58	60	63
12						27	30	33	36	39	42	45	48	52	54	57	60	63	66	69	72	75
14									42	46	49	53	56	60	63	67	70	74	77	81	84	88
16										52	56	60	64	68	72	76		84		92	96	100
18				x 1.000 m³/h											81	86	90	95	99	104	108	113
20																	100	105	110	115	120	125*

Preferred range

Combination with heat recovery

Other sizes

Module dimension: 160 mm

Example type: 39HQ12.10

External width: n x module plus 98 mm

Width: 12 x 160 plus 98 = 2018 mm

External height: n x module plus 98 mm

Height: 10 x 160 plus 98 = 1698 mm

Support height: 160 mm or 62 mm

Nominal air flow: 8.5 m³/s

* Note: Larger sizes possible.



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SA8000
BUREAU VERITAS
Certification



ALARKO



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Manufacturer reserves the right to change any product specifications without notice.